



*Consulting Engineers  
and Scientists*

**PASTOR, BEHLING & WHEELER, LLC**  
2201 Double Creek Drive, Suite 4004  
Round Rock, TX 78664

Tel (512) 671-3434  
Fax (512) 671-3446

November 12, 2008  
(PBW Project No. 1352)

**VIA OVERNIGHT DELIVERY**

Mr. Gary Miller, Remedial Project Manager  
U.S. Environmental Protection Agency, Region 6  
Superfund Division (6SF-AP)  
1445 Ross Avenue, Suite 1200  
Dallas, Texas 75202-2733

Re: Proposed Phase 5 Groundwater Investigation Activities, Gulfco Marine Maintenance  
Site, Freeport, Texas

Dear Mr. Miller:

Per our previous discussions, this letter provides validated data for groundwater samples from Zone B monitoring well NE4MW31B, Zone C monitoring well NE4MW32C, and Zone C piezometers NG3CPT1, NE4CPT2, NC2CPT3, and OCPT4, which were sampled as part of the Remedial Investigation/Feasibility Study (RI/FS) at the subject site (the Site). Phase 5 groundwater investigation activities proposed on the basis of those data are also described herein. This information is provided by Pastor, Behling & Wheeler, LLC (PBW) on behalf of LDL Coastal Limited LP (LDL), Chromalloy American Corporation (Chromalloy) and The Dow Chemical Company (Dow). In accordance with Paragraph 52 of the amended Unilateral Administrative Order for the Site, effective January 31, 2008, I certify that I have been fully authorized by these Respondents to submit these documents and to legally bind these Respondents thereto.

**PHASE 4 GROUNDWATER DATA SUMMARY**

Phase 4 groundwater investigation activities were proposed in a February 11, 2008 letter to you and were approved by your letter dated March 18, 2008. These Phase 4 field activities, which were performed during the period from June to September 2008, included the following:

- Installation, development and sampling of monitoring well NE4MW31B within the Zone B water-bearing unit in the area north of Marlin Avenue (the North Area), as shown on Figure 1;
- Hydraulic testing of three monitoring wells (ND4MW24B, NG3MW25B and OMW27B) within the Zone B water-bearing unit;
- Advancement of four borings using a Cone Penetrometer equipped with a Membrane Interface Probe (MIP) to Zone C at locations NG3CPT1, NE4CPT2, NC2CPT3, and OCPT4 (Figure 1), followed by back grouting of the Cone Penetrometer Testing (CPT) borings and subsequent installation of adjacent small-diameter piezometers;

- Installation, development and sampling of monitoring well NE4MW32C within the Zone C water-bearing unit (location shown on Figure 1);
- Evaluation of the possible presence of NAPL within monitoring wells; and
- Measurement of water levels in Site monitoring wells, piezometers and staff gauges.

Although not proposed in the February 11, 2008 letter, soil samples were collected from the boring for NE4MW32C for vertical hydraulic conductivity testing in conjunction with Phase 4 groundwater activities. Installation, geophysical logging and plugging/abandonment of a deep soil boring (SE1DB01 as shown on Figure 1) as described in the approved RI/FS Work Plan was also performed concurrent with the Phase 4 activities. A soil sample from this boring was also collected for vertical hydraulic conductivity testing.

Based on the data for the groundwater sample collected from monitoring well NE4MW32C (discussed below), re-sampling of this well and collection of groundwater samples from the four Zone C CPT piezometers described above were proposed in e-mail messages to you on July 17, 2008 and July 23, 2008 and was approved by your e-mail message on July 23, 2008. A second re-sampling of NE4MW32C was discussed with and approved by you on September 3, 2008.

At NE4MW31B, Zone B was encountered at a depth of 20 feet below ground surface (bgs) and consisted of more than ten feet of a fine to medium-grained sand (boring log provided in Attachment A). The groundwater sample collected from this well contained no analytes at concentrations exceeding their respective Preliminary Screening Values (PSVs) (Table 1). Water levels measured in Zone B monitoring wells on July 30, 2008 (Figure 2) indicate a predominantly north to northwest hydraulic gradient within this zone.

At NE4MW32C, Zone C consisted of a thin (less than 0.5 ft thick) shell layer at a depth of approximately 73 feet bgs within a surrounding high plasticity clay unit. As shown on the NE4MW32C boring log (Attachment A) and profiles for the four CPT probe holes (Attachment B), approximately 25 or more feet of clay/silty clay separate Zone C from Zone B. The vertical hydraulic conductivity of this clayey material was measured at approximately  $6 \times 10^{-9}$  cm/sec (Table 2).

Water level elevations measured in the Zone C monitoring well/piezometers were used to construct potentiometric surface maps for June 17 (Figure 3), July 30 (Figure 4), and September 29, 2008 (Figure 5). All three of these maps suggest a generally northwesterly gradient within this unit. The total dissolved solids (TDS) concentration of groundwater in Zone C was 24,600 mg/L.

As indicated in Table 1, three volatile organic compounds (VOCs), 1,2,3-trichloropropane (1,2,3-TCP), tetrachloroethene (PCE), and trichloroethene (TCE) were detected in the June 18, 2008 groundwater sample from NE4MW32C at concentrations exceeding their respective PSVs. Re-sampling of this well and the four Zone C CPT piezometers was performed on July 31, 2008. Analyses of these samples confirmed only the 1,2,3-TCP exceedence in the initial NE4MW32C sample (at a lower concentration), and indicated no PSV exceedences in any of the CPT piezometer samples (Table 1). A third sample from NE4MW32C, collected on September 30, 2008 following re-development of the well after submergence of the Site during the Hurricane Ike storm surge, did not indicate any PSV exceedences.

## PROPOSED PHASE 5 GROUNDWATER INVESTIGATION ACTIVITIES

Per our discussions, installation of an additional Zone C CPT piezometer (OCPT5) is proposed at the location shown on Figure 6. This piezometer is proposed to provide a Zone C monitoring location directly downgradient from the former surface impoundments at the Site. This piezometer will be installed using the same approach used for the other Zone C piezometers, as detailed below.

It is anticipated that OCPT5 will be advanced using a track-mounted CPT unit. The CPT probe will be combined with an MIP probe to provide a real-time indication of the possible presence of VOCs in the subsurface. The CPT boring will be advanced to the inferred base of Zone C (as indicated by cone resistance and friction resistance data measured by the cone penetrometer) or refusal. Upon reaching the target depth (or upon refusal), the CPT probe will be withdrawn and the probe hole will be backfilled with a cement-bentonite grout emplaced by tremie pipe from the bottom of the hole to the surface. Using the estimated lithology from the CPT boring, hollow push rods with a disposable tip will be advanced to the Zone C target depth in a separate borehole adjacent to each CPT boring. A small diameter ( $\frac{3}{4}$ -inch or smaller) piezometer will then be installed through the push rods. The push rods will be withdrawn from the boring leaving the disposable tip and piezometer materials in place. The piezometer will be constructed with a maximum 10-foot screen length with a pre-packed filter pack and bentonite seal. The annular space above the piezometer seal will be filled with a cement-bentonite grout. Each piezometer will be completed above grade with locking protective steel casing within a 2 foot by 2 foot well pad.

After construction, OCPT5 will be sampled using low flow methods as described in the Work Plan and the approved Field Sampling Plan (FSP). NE4MW32C will also be sampled in the same way concurrent with the OCPT5 sampling. These groundwater samples will be analyzed for the parameters listed in Table 3.

Although PSV exceedences were noted in the two initial samples collected from NE4MW32C, it is proposed that no additional groundwater investigation be performed should the OCPT5 and NE4MW32C samples proposed herein show no PSV exceedences. In such case, the proposed NE4MW32C sample would be the second sample (along with the September 30, 2008 sample) from this well that did not confirm the initial PSV exceedences. In addition, the VOCs detected in the three NE4MW32C samples collected to date have shown significant decreasing concentration trends (Table 1).

Thank you for the opportunity to submit this information. We look forward to your approval of these proposed activities, so we can continue to move forward with the expeditious completion of this project.

Sincerely,

PASTOR, BEHLING & WHEELER, LLC



Eric F. Pastor, P.E.  
Principal Engineer

Mr. Gary Miller  
November 12, 2008  
Page 4 of 4

cc: Ms. Luda Voskov - Texas Commission on Environmental Quality  
Mr. Brent Murray – Environmental Quality, Inc.  
Mr. Rob Rouse - The Dow Chemical Company  
Mr. Allen Daniels - LDL Coastal Limited, LP  
Mr. F. William Mahley - Strasburger & Price, LLP  
Mr. James C. Morriss III - Thompson & Knight, LLP

## FIGURES





### EXPLANATION

- |   |                                   |
|---|-----------------------------------|
| Gulfco Marine Maintenance Site Boundary (approximate) | Monitoring Well Location - Zone B |
| Monitoring Well Location - Zone A                     | Soil Boring Location - Zone B     |
| Temporary Piezometer - Zone A                         | Monitoring Well Location - Zone C |
| Staff Gauge   | CPT Piezometer Location - Zone C  |
| Previous Monitoring Well Location                     | Deep Soil Boring Location         |

Source of photo: H-GAC, Texas aerial photograph, 2006.

### GULFCO MARINE MAINTENANCE FREEPORT, BRAZORIA COUNTY, TEXAS

Figure 1

## MONITORING WELL LOCATIONS

PROJECT: 1352

BY: ZGK

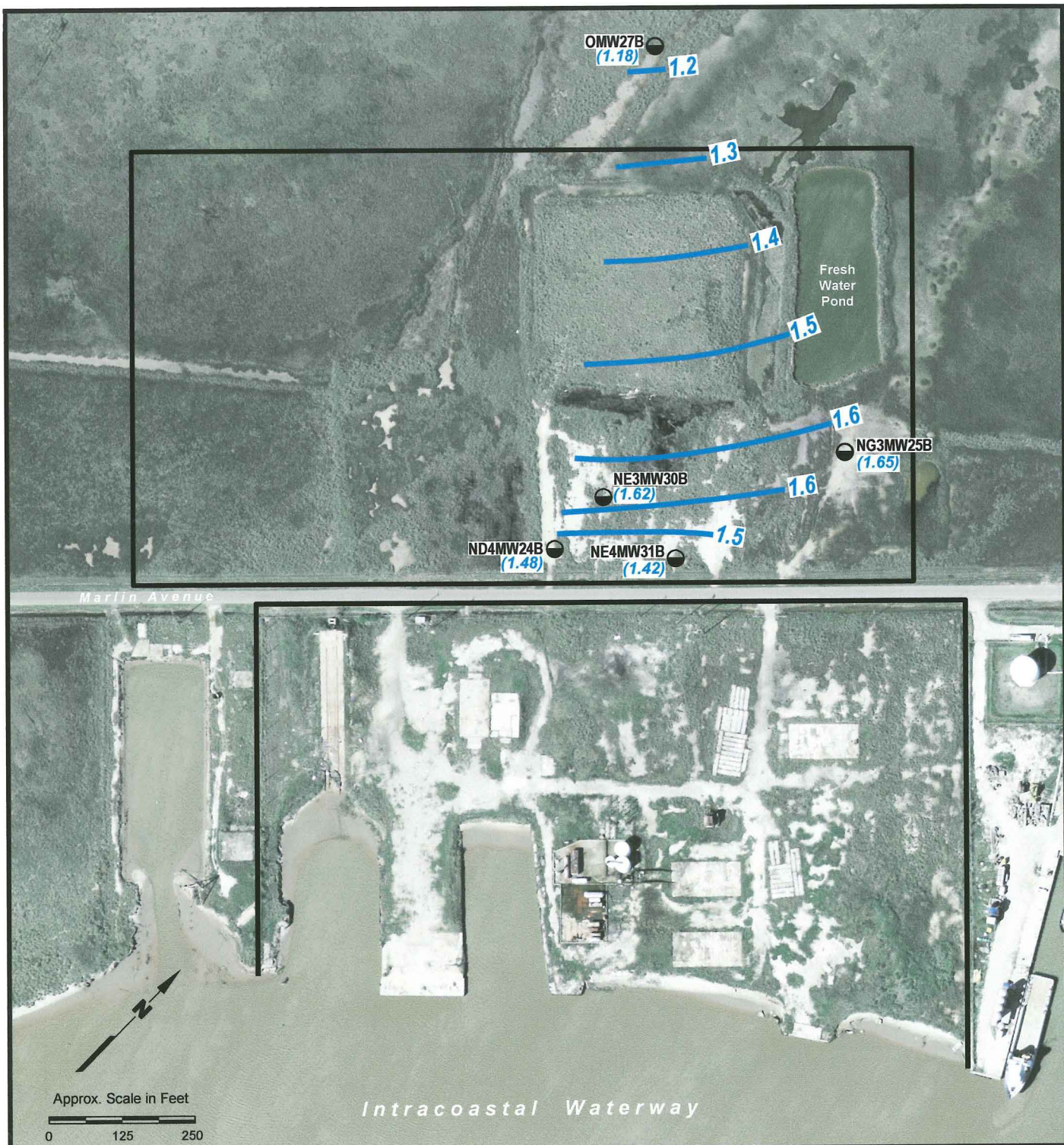
REVISIONS

DATE: NOV., 2008



CHECKED: EFP

**PASTOR, BEHLING & WHEELER, LLC**  
CONSULTING ENGINEERS AND SCIENTISTS





### EXPLANATION

- |   |   |   |   |
|---|---|---|---|
|  | Gulfco Marine Maintenance Site Boundary (approximate) |  | (1.48) Water-Level Elevation (Ft AMSL) Measured 7/30/08                   |
|  | Monitoring Well Location - Zone B                     |  | 1.5 Potentiometric Surface Contour (Ft AMSL)<br>Contour Interval = 0.1 Ft |

Source of photo: H-GAC, Texas aerial photograph, 2006.

### GULFCO MARINE MAINTENANCE FREEPORT, BRAZORIA COUNTY, TEXAS

### Figure 2 ZONE B POTENTIOMETRIC SURFACE JULY 30, 2008

PROJECT: 1352

BY: ZGK

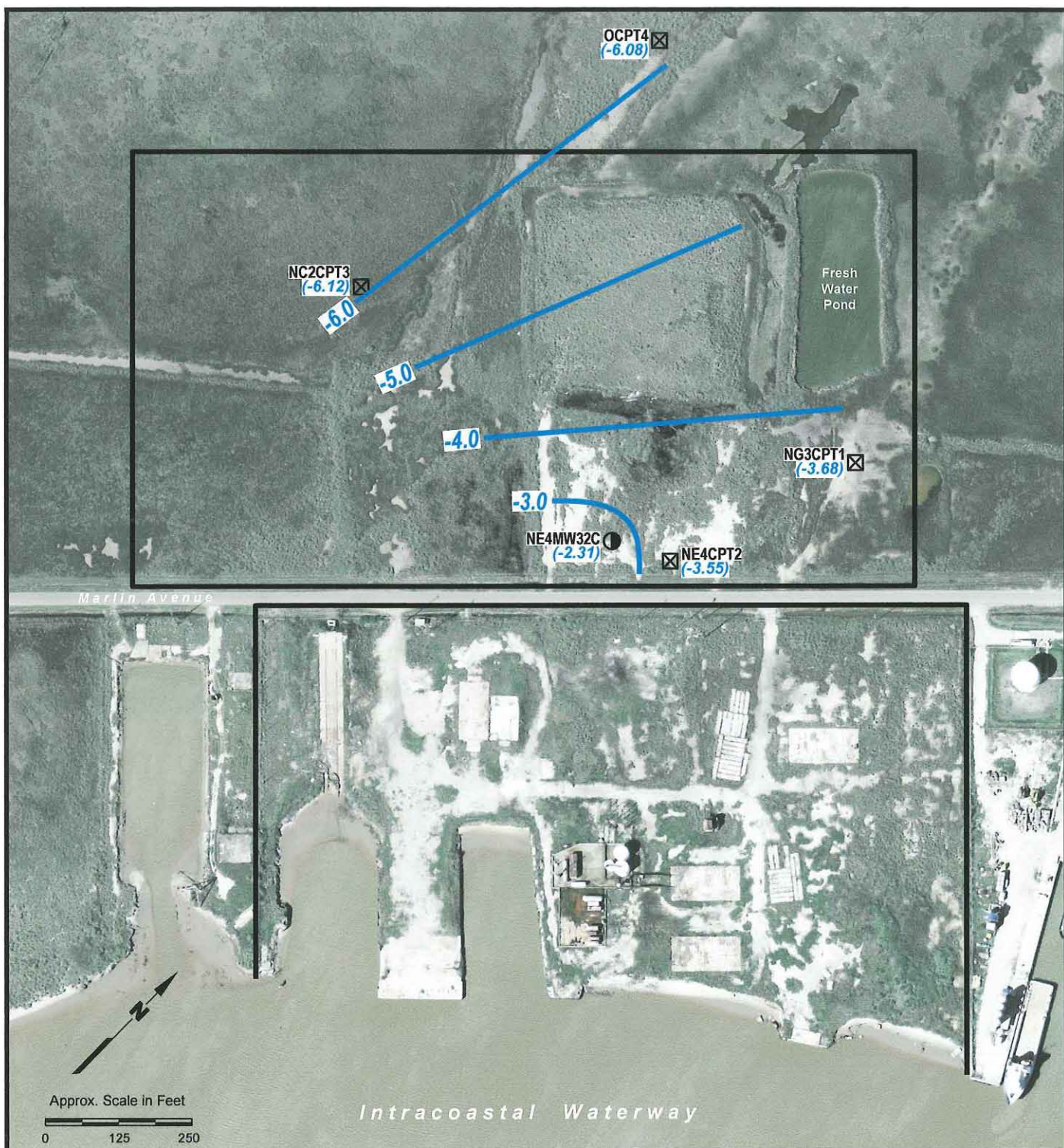
REVISIONS

DATE: NOV., 2008

CHECKED: EFP

**PASTOR, BEHLING & WHEELER, LLC**  
CONSULTING ENGINEERS AND SCIENTISTS





### EXPLANATION

- Gulfc0 Marine Maintenance Site Boundary (approximate)
- (-6.12) Water-Level Elevation (Ft AMSL) Measured 6/17/08
- Monitoring Well Location - Zone C
- 3.0 Potentiometric Surface Contour (Ft AMSL) Contour Interval = 1 Ft
- CPT Piezometer Location - Zone C

Source of photo: H-GAC, Texas aerial photograph, 2006.

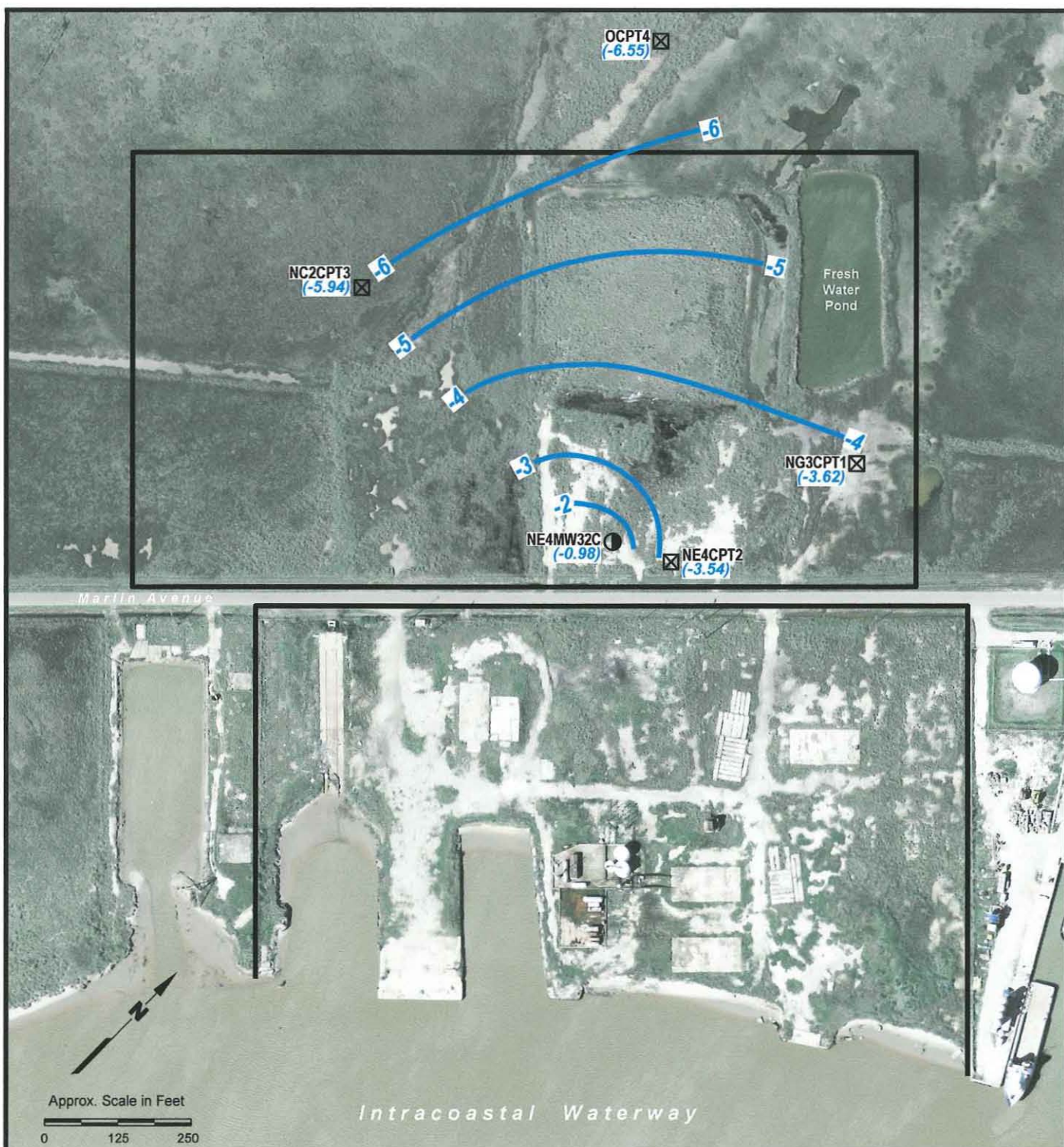
### GULFCO MARINE MAINTENANCE FREEPORT, BRAZORIA COUNTY, TEXAS

### Figure 3 ZONE C POTENTIOMETRIC SURFACE JUNE 17, 2008

PROJECT: 1352	BY: ZGK	REVISIONS
DATE: NOV., 2008	CHECKED: EFP	

**PASTOR, BEHLING & WHEELER, LLC**  
CONSULTING ENGINEERS AND SCIENTISTS





### EXPLANATION

- Gulfco Marine Maintenance Site Boundary (approximate)
- (-6.55) Water-Level Elevation (Ft AMSL) Measured 7/30/08
- Monitoring Well Location - Zone C
- 3.0 Potentiometric Surface Contour (Ft AMSL) Contour Interval = 1 Ft
- CPT Piezometer Location - Zone C

Source of photo: H-GAC, Texas aerial photograph, 2006.

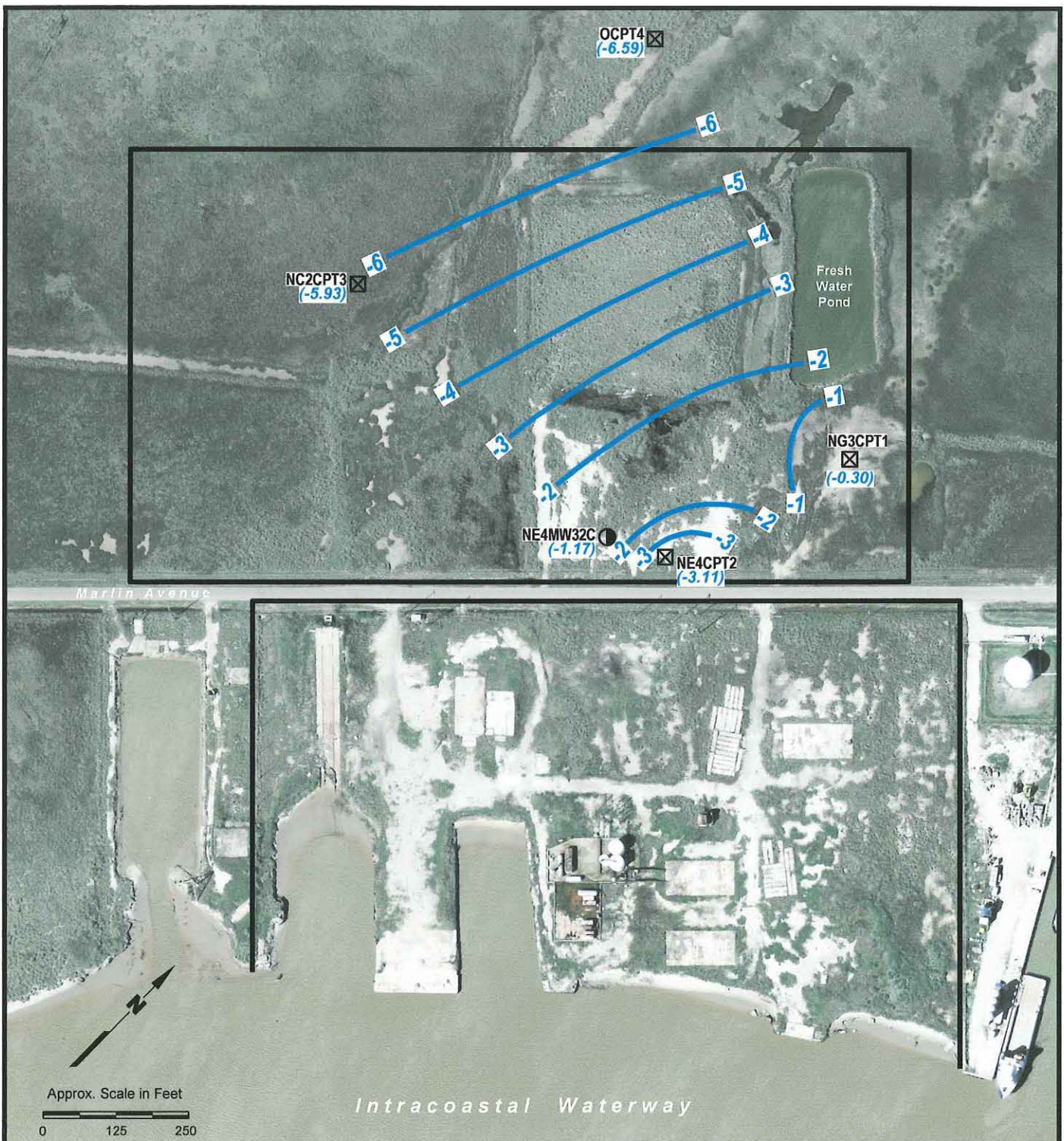
### GULFCO MARINE MAINTENANCE FREEPORT, BRAZORIA COUNTY, TEXAS

### Figure 4 ZONE C POTENTIOMETRIC SURFACE JULY 30, 2008

PROJECT: 1352	BY: ZGK	REVISIONS
DATE: NOV., 2008	CHECKED: EFP	

**PASTOR, BEHLING & WHEELER, LLC**  
CONSULTING ENGINEERS AND SCIENTISTS





### EXPLANATION

- Gulfco Marine Maintenance Site Boundary (approximate)
- (-3.11) Water-Level Elevation (Ft AMSL) Measured 9/29/08
- Monitoring Well Location - Zone C
- 3.0 Potentiometric Surface Contour (Ft AMSL)  
Contour Interval = 1 Ft
- CPT Piezometer Location - Zone C

Source of photo: H-GAC, Texas aerial photograph, 2006.

### GULFCO MARINE MAINTENANCE FREEPORT, BRAZORIA COUNTY, TEXAS

#### Figure 5 **ZONE C POTENTIOMETRIC SURFACE SEPTEMBER 29, 2008**

PROJECT: 1352	BY: ZGK	REVISIONS
DATE: NOV., 2008	CHECKED: EFP	

**PASTOR, BEHLING & WHEELER, LLC**  
CONSULTING ENGINEERS AND SCIENTISTS





**GULFCO MARINE MAINTENANCE**  
FREEPORT, BRAZORIA COUNTY, TEXAS

Figure 6  
**PROPOSED CPT PIEZOMETER LOCATION**

- EXPLANATION**
- Gulfco Marine Maintenance Site Boundary (approximate)
  - ⊗ CPT Piezometer Location - Zone C
  - Monitoring Well Location - Zone C
  - Proposed Zone C Piezometer Location

PROJECT: 1352	BY: ZGK	REVISIONS
DATE: NOV., 2008	CHECKED: EFP	

**PASTOR, BEHLING & WHEELER, LLC**  
CONSULTING ENGINEERS AND SCIENTISTS

Source of photo: H-GAC, Texas aerial photograph, 2006.



## TABLES

TABLE 1 - PHASE 4 GROUNDWATER DATA

Sample Location	Sample Date	Analytical Parameter	Concentration (mg/L)	Preliminary Screening Value (mg/L) <sup>1</sup>
NE4MW31B	6/18/2008	1,1,1-Trichloroethane	<0.000155	20
		1,1-Dichloroethene	<0.000226	0.7
		1,2,3-Trichloropropane	<0.000151	0.029
		1,2-Dichloroethane	<0.000184	0.5
		Benzene	<0.000184	0.5
		Carbon tetrachloride	<0.000124	0.5
		cis-1,2-Dichloroethene	0.000423J	7
		Methylene chloride	0.00218J	0.5
		Tetrachloroethene	<0.000081	0.5
		Trichloroethene	<0.000123	0.5
		Vinyl chloride	<0.000163	0.2
NE4MW32C	6/18/2008	1,1,1-Trichloroethane	0.709	20
		1,1-Dichloroethene	<0.000226	0.7
		1,2,3-Trichloropropane	<b>0.321</b>	0.029
		1,2-Dichloroethane	<0.000184	0.5
		Benzene	0.0459J	0.5
		Carbon tetrachloride	<0.000124	0.5
		cis-1,2-Dichloroethene	4.62	7
		Methylene chloride	<0.000104	0.5
		Tetrachloroethene	<b>1.35</b>	0.5
		Trichloroethene	<b>1.89</b>	0.5
		Vinyl chloride	<0.000163	0.2
	7/31/2008	1,1,1-Trichloroethane	0.18	20
		1,1-Dichloroethene	0.0379	0.7
		1,2,3-Trichloropropane	<b>0.219</b>	0.029
		1,2-Dichloroethane	<0.0018	0.5
		Benzene	0.0548	0.5
		Carbon tetrachloride	<0.00312	0.5
		cis-1,2-Dichloroethene	3.27	7
		Methylene chloride	<0.00192	0.5
		Tetrachloroethene	<0.00306	0.5
		Trichloroethene	<0.00236	0.5
		Vinyl chloride	<0.00310	0.2
	9/30/2008	1,1,1-Trichloroethane	<0.000096	20
		1,1-Dichloroethene	0.00177J	0.7
		1,2,3-Trichloropropane	0.0119	0.029
		1,2-Dichloroethane	<0.00009	0.5
		Benzene	0.0012J	0.5
		Carbon tetrachloride	<0.000156	0.5
		cis-1,2-Dichloroethene	0.168	7
		Methylene chloride	<0.000096	0.5
		Tetrachloroethene	0.00648	0.5
		Trichloroethene	0.00639	0.5
		Vinyl chloride	<0.000155	0.2

TABLE 1 - PHASE 4 GROUNDWATER DATA

Sample Location	Sample Date	Analytical Parameter	Concentration (mg/L)	Preliminary Screening Value (mg/L) <sup>1</sup>
NG3CPT1	7/31/2008	1,1,1-Trichloroethane	<0.000096	20
		1,1-Dichloroethene	<0.000201	0.7
		1,2,3-Trichloropropane	<0.000091	0.029
		1,2-Dichloroethane	<0.000090	0.5
		Benzene	<0.000065	0.5
		Carbon tetrachloride	<0.000156	0.5
		cis-1,2-Dichloroethene	<0.000162	7
		Methylene chloride	<0.000096	0.5
		Tetrachloroethene	<0.000153	0.5
		Trichloroethene	<0.000118	0.5
		Vinyl chloride	<0.000155	0.2
NE4CPT2	7/31/2008	1,1,1-Trichloroethane	<0.000096	20
		1,1-Dichloroethene	<0.000201	0.7
		1,2,3-Trichloropropane	<0.000091	0.029
		1,2-Dichloroethane	<0.000090	0.5
		Benzene	<0.000065	0.5
		Carbon tetrachloride	<0.000156	0.5
		cis-1,2-Dichloroethene	<0.000162	7
		Methylene chloride	<0.000096	0.5
		Tetrachloroethene	<0.000153	0.5
		Trichloroethene	<0.000118	0.5
		Vinyl chloride	<0.000155	0.2
NC2CPT3	7/31/2008	1,1,1-Trichloroethane	<0.000096	20
		1,1-Dichloroethene	<0.000201	0.7
		1,2,3-Trichloropropane	<0.000091	0.029
		1,2-Dichloroethane	<0.000090	0.5
		Benzene	<0.000065	0.5
		Carbon tetrachloride	<0.000156	0.5
		cis-1,2-Dichloroethene	<0.000162	7
		Methylene chloride	<0.000096	0.5
		Tetrachloroethene	<0.000153	0.5
		Trichloroethene	<0.000118	0.5
		Vinyl chloride	<0.000155	0.2



**TABLE 1 - PHASE 4 GROUNDWATER DATA**

Sample Location	Sample Date	Analytical Parameter	Concentration (mg/L)	Preliminary Screening Value (mg/L) <sup>1</sup>
OCPT4	7/31/2008	1,1,1-Trichloroethane	<0.000096	20
		1,1-Dichloroethene	<0.000201	0.7
		1,2,3-Trichloropropane	<0.000091	0.029
		1,2-Dichloroethane	<0.000090	0.5
		Benzene	<0.000065	0.5
		Carbon tetrachloride	<0.000156	0.5
		cis-1,2-Dichloroethene	<0.000162	7
		Methylene chloride	<0.000096	0.5
		Tetrachloroethene	<0.000153	0.5
		Trichloroethene	<0.000118	0.5
		Vinyl chloride	<0.000155	0.2

Notes:

(1) From Table 18 of RI/FS Workplan (human health PSVs only).

(2) Data qualifiers: J = estimated value.

(3) Bolded values exceed preliminary screening value.

**TABLE 2 - LABORATORY VERTICAL HYDRAULIC CONDUCTIVITY TESTING RESULTS**

<b>Sample Location</b>	<b>Sample Depth (ft below ground surface)</b>	<b>Vertical Hydraulic Conductivity (cm/sec)</b>
NE4MW32C	53-55	$6.55 \times 10^{-9}$
NE4MW32C	55-57	$5.66 \times 10^{-9}$
SE1DB01	80-82	$1.64 \times 10^{-8}$

**TABLE 3 - PROPOSED GROUNDWATER SAMPLE ANALYSES**

Sample Location	Analytical Parameter
OCPT5 NE4MW32C	1,1,1-Trichloroethane
	1,1-Dichloroethene
	1,2,3-Trichloropropane
	1,2-Dichloroethane
	Benzene
	Carbon tetrachloride
	cis-1,2-Dichloroethene
	Methylene chloride
	Tetrachloroethene
	Trichloroethene
	Vinyl chloride



**ATTACHMENT A**  
**NE4MW31B AND NE4MW32C**  
**BORING LOGS**

PASTOR, BEHLING & WHEELER, LLC Consulting Engineers and Scientists			Log of Boring: NE4MW31B					
Gulfco Marine Maintenance Superfund Site Freeport, TX			Completion Date: 06/13/08		Borehole Diameter (in.): 8.0/13.0			
			Drilling Company: Universal Drilling		Total Depth (ft): 45			
PBW Project No. 1352			Field Supervisor: Tim Jennings, P.G.		Northing: 3154903.18			
			Drilling Method: Hollow Stem Auger		Easting: 13554709.81			
			Sampling Method: 5 ft. split spoon		Ground Elev. (ft. MSL): 3.0			
					TOC Elev. (ft MSL) 6.01			
Depth (ft)	Well Construction Diagram	PID (ppm-v)	Recovery (ft/ft)	USCS	Lithologic Description			
0		0.2	5/5	RD BASE	(0.0-0.8) Caliche road base.			
5				CL/CH	(0.8-6.2) Sandy CLAY, gray with brown mottling, moist, ~5 to 10% fine-grained sand, ~ 90 to 95% medium to high plasticity clays.			
			5/5	CH	(6.2-8.5) Silty sandy CLAY, brown with gray mottling, moist to locally wet, ~5 to 10% fine-grained sand, ~15 to 20% silt, ~70 to 80% high plasticity clay, soft.			
10				ML	(8.5-9.4) Clayey SILT, grayish-brown, wet, ~30 to 40% high plasticity clay, ~60 to 70% silt, soft.			
			5/5	SM	(9.4-11.3) Silty SAND, grayish-brown to brown, wet, ~10 to 30% silt, ~70 to 90% fine-grained sand, soft.			
				ML	(11.3-13.4) Sandy clayey SILT, brown, wet, ~10 to 20% high plasticity clay, ~20 to 30% fine-grained sand, ~50 to 70% silt, very soft.			
15				CH	(13.4-16.0) Sandy CLAY, grayish-brown, wet, ~10 to 20% very fine-grained sand, ~80 to 90% high plasticity clay, very soft.			
				1/5	NR	(16.0-20.0) NO RECOVERY.		
20		0.2	2.5/5	SP	(20.0-30.0) SAND, poorly graded, brown, wet, very fine-grained to medium-grained sand with ~5% shell fragments at 20.0 to 21.5, very fine-grained to fine-grained sand with trace shell fragments at 21.5 to 30.0, firm, trace gray clay.			
25			2.5/5					
30		0/5	0/5	NR	(30.0-40.0) NO RECOVERY in flowing sands.			
35								
40			0.25/5	CL	(40.0-45.0) Sandy CLAY in shoe of core barrell, only recovered 0.2', drilled like clay.			
45								
<div>PBW</div> <div>Pastor, Behling &amp; Wheeler, LLC 2201 Double Creek Dr., Suite 4004 Round Rock, TX 78664 Tel (512) 671-3434 Fax (512) 671-3446</div>			<u>Well Materials</u> (0.0-16.0) Surface Casing, 10" sch. 40 PVC (0.0-18.0) Casing, 2" sch. 40 PVC (18.0-28.0) Screen, 2" sch. 40 PVC, 0.01" slot (28.0-28.3) End Cap		<u>Annular Materials</u> (0.0-12.0) Cement/Bentonite slurry, inside surf. casing (0.0-16.0) Cement/Bentonite slurry, outside surf. casing (12.0-17.0) 3/8" bentonite chips, inside surf. casing (17.0-29.7) 16/30 silica sand			
			This boring log should not be used separately from the original report.					





This boring log should not be used separately from the original report.

**ATTACHMENT B**

**FUGRO CONSULTANTS, INC.  
CONE PENETRATION TESTING REPORT**



# CPT Data

Job Number 04.1908-0042

CPT Number NG3-CPT1

Location Gulfco Site-Freeport-TX

Operator ALBERT FONSECA

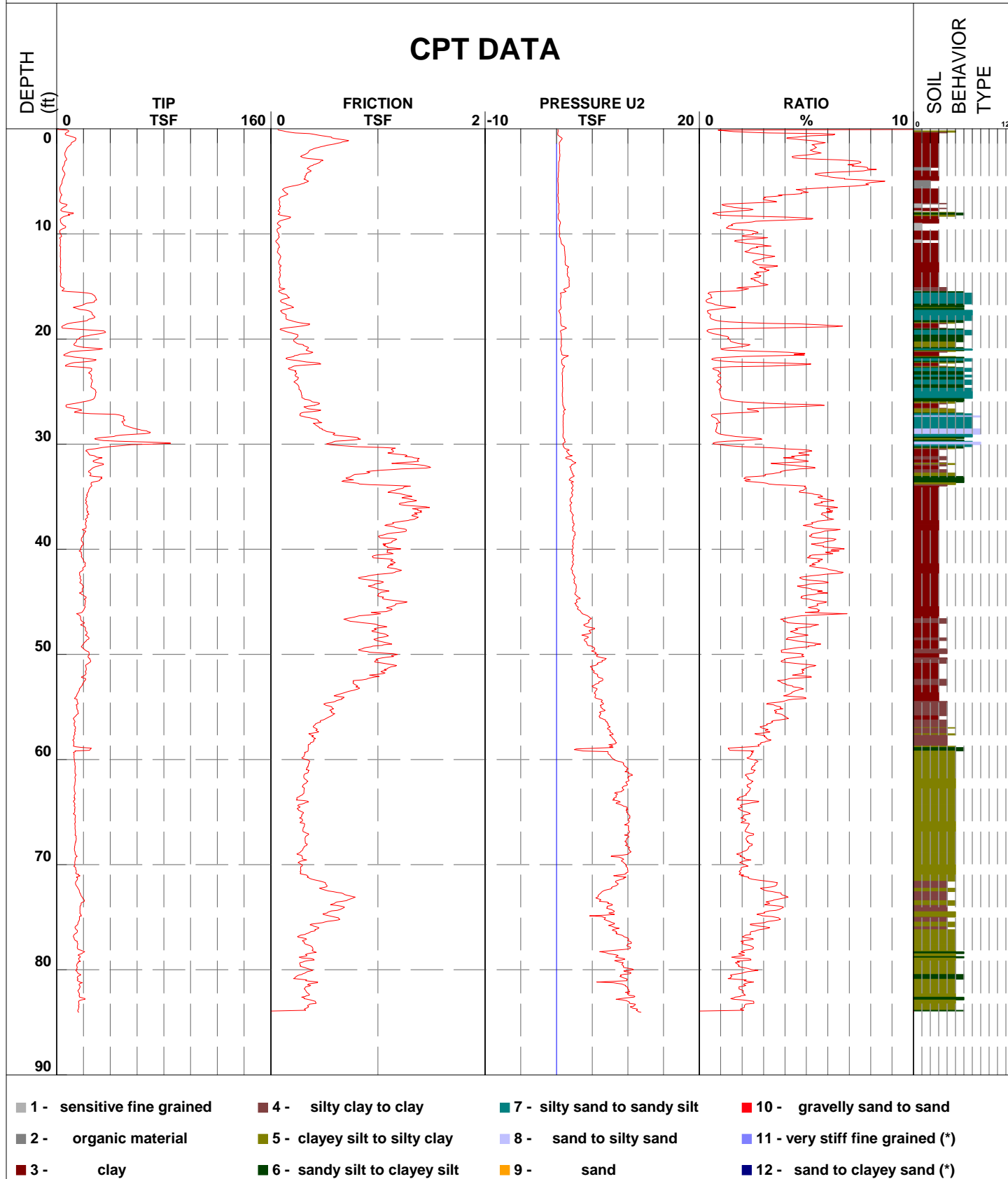
Date and T 03-Jun-2008 08:55:23

Cone Number A15F2.5CKEHW1636

Client \_\_\_\_\_

Elevation \_\_\_\_\_

Water Table 0.00 ft







# CPT Data

Job Number 04.1908-0042

CPT Number NE4-CPT2

Location Gulfco Site-Freepor-TX

Operator ALBERT FONSECA

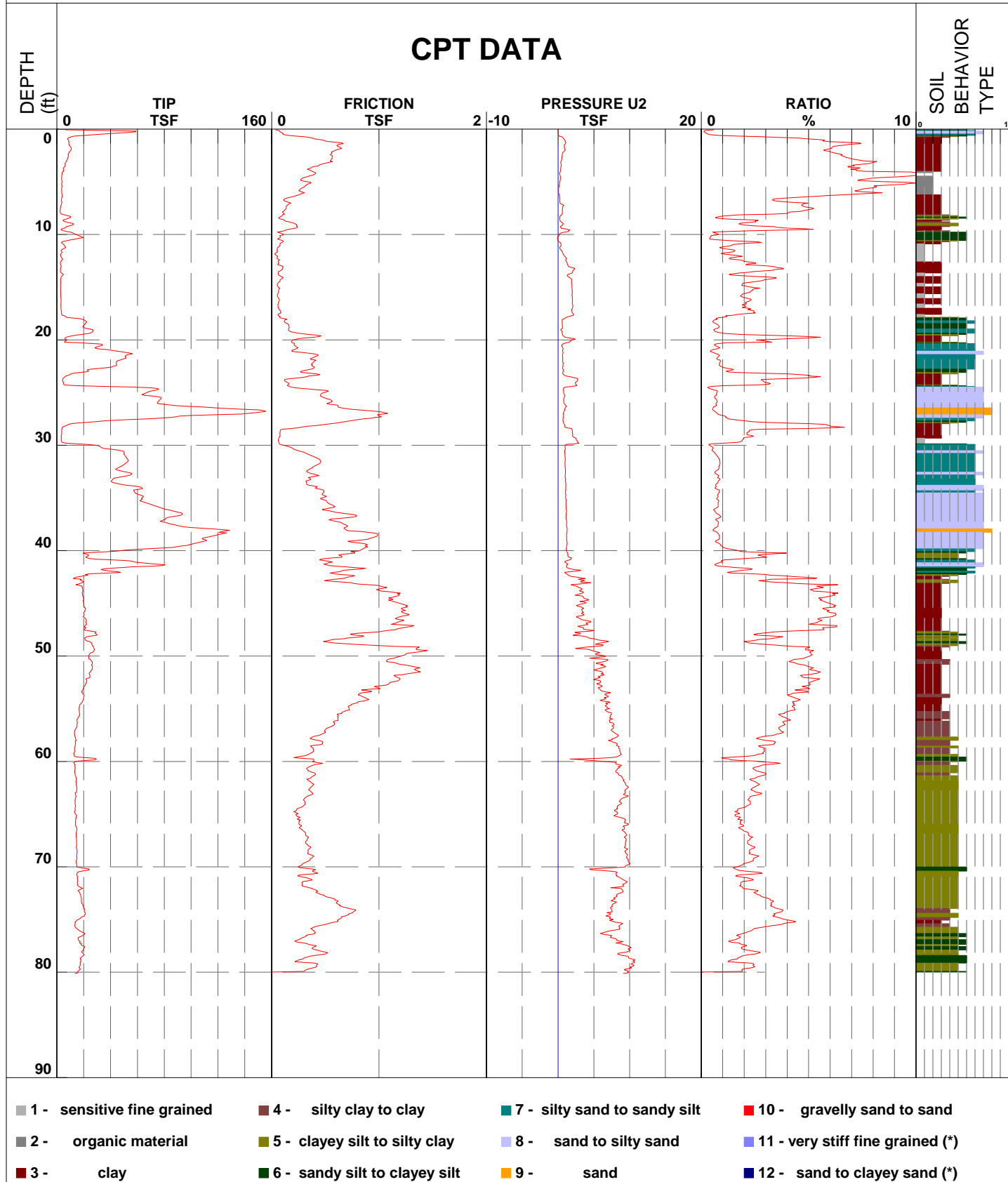
Date and T 04-Jun-2008 13:11:05

Cone Number A15F2.5CKEHW1636

Client \_\_\_\_\_

Elevation \_\_\_\_\_

Water Table 0.00 ft





# CPT Data

Job Number 04.1908-0042

CPT Number NC2-CPT3

Location Gulfco Site-Freeport-TX

Operator ALBERT FONSECA

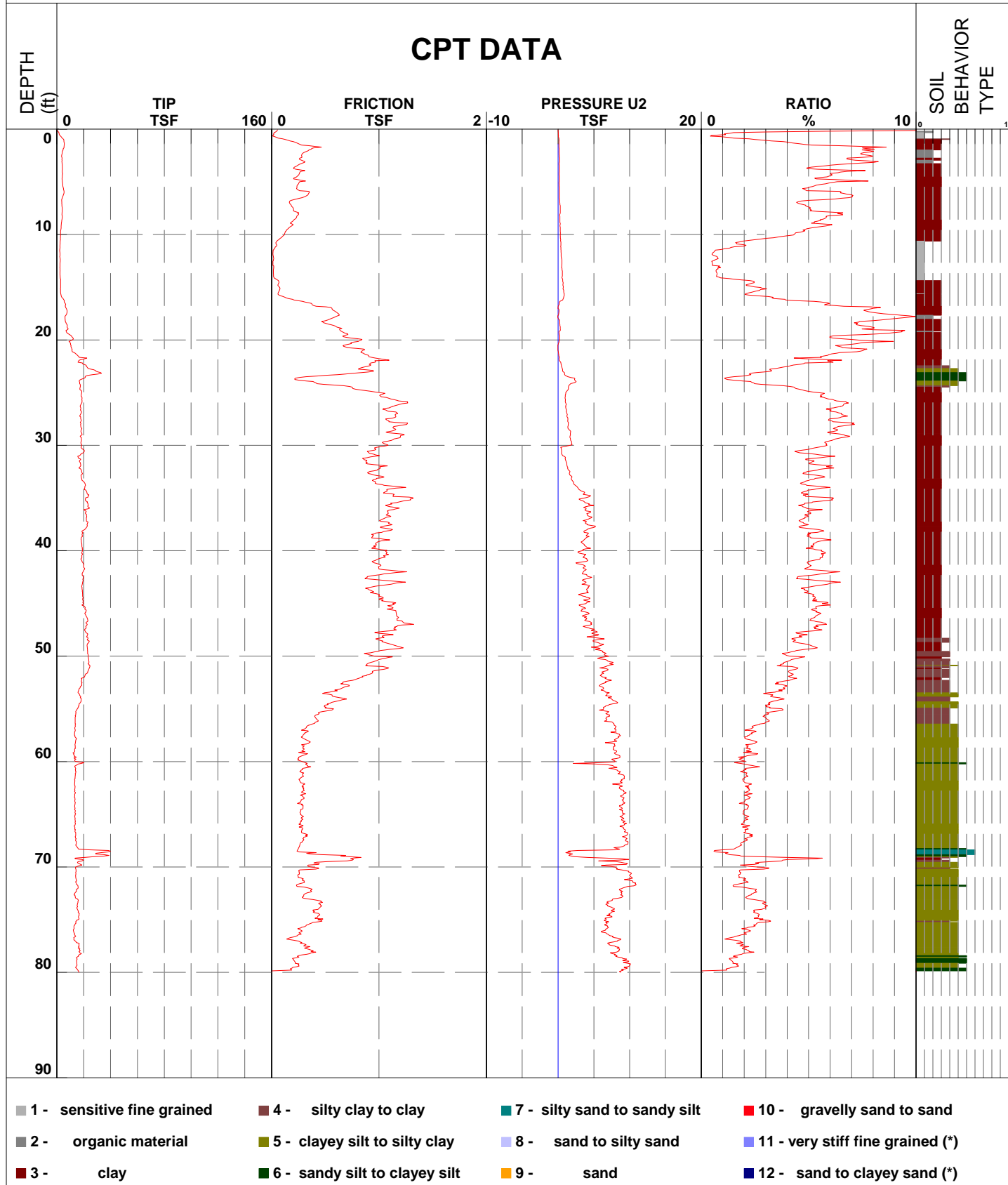
Date and T 02-Jun-2008 14:04:29

Cone Number A15F2.5CKEHW1636

Client

Elevation

Water Table 0.00 ft





# CPT Data

Job Number 04.1908-0042

CPT Number OCPT-4

Location Gulfco Site-Freeport-TX

Operator ALBERT FONSECA

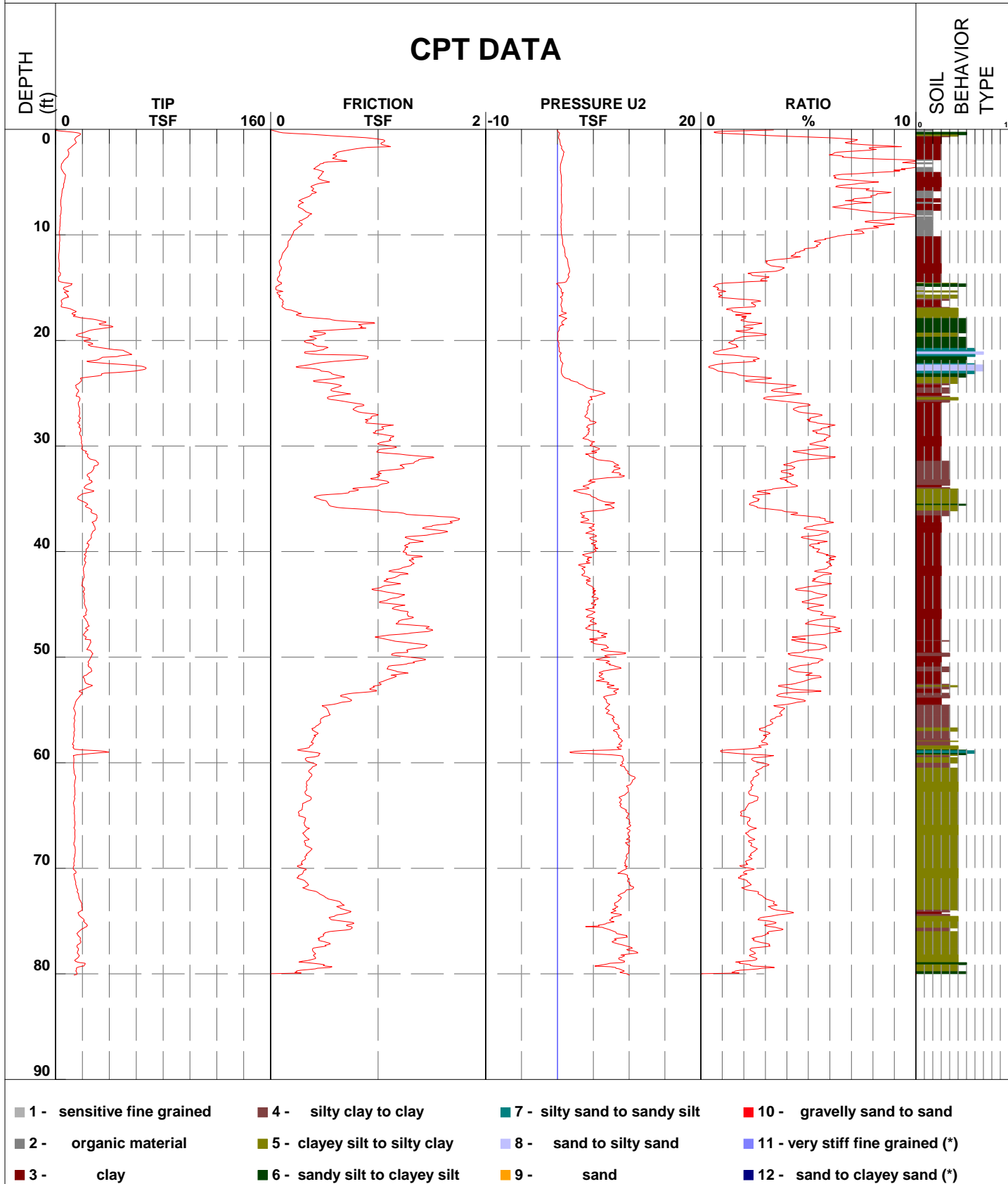
Date and T 03-Jun-2008 16:42:24

Cone Number A15F2.5CKEHW1636

Client \_\_\_\_\_

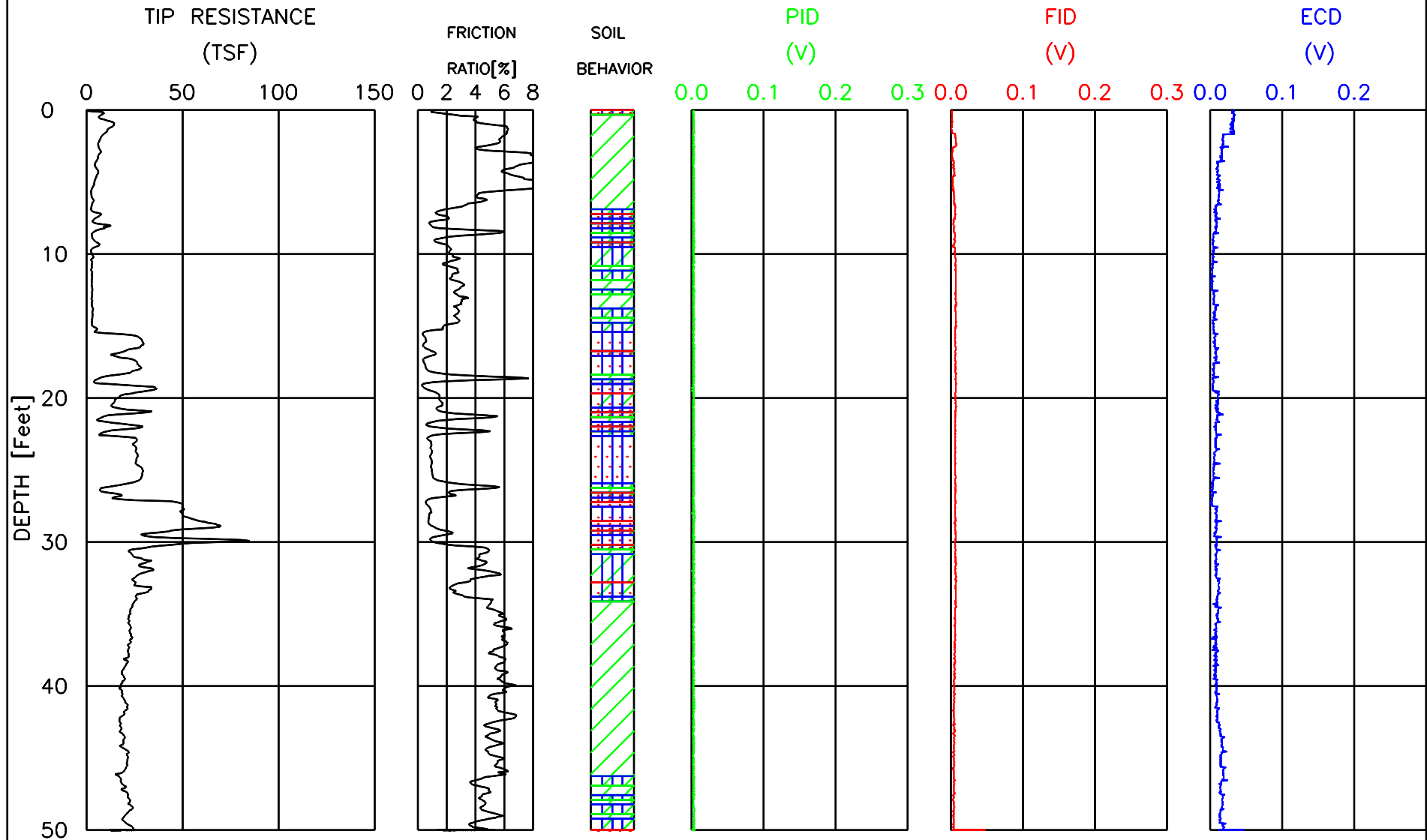
Elevation \_\_\_\_\_

Water Table 0.00 ft





# CPT/MIP TEST RESULTS



JOB NUMBER: 04.1908-0042

ELEVATION: 0.00

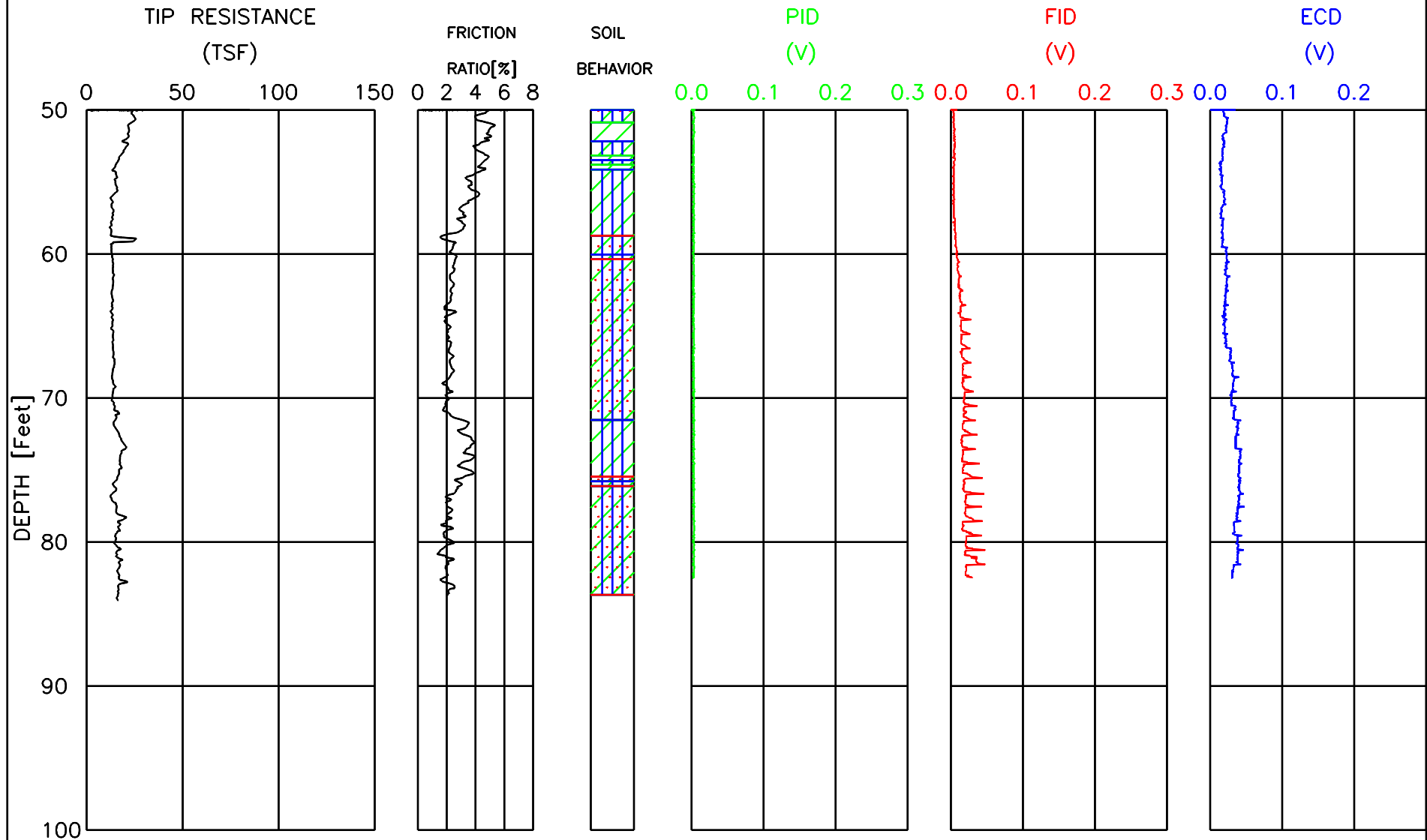
CPT NUMBER: NG3-CPT1

CONE NUMBER: A15F2.5CKEHW1636

DATE: 03-Jun-2008

PLATE: 1 OF 2

# CPT/MIP TEST RESULTS



JOB NUMBER: 04.1908-0042

ELEVATION: 0.00

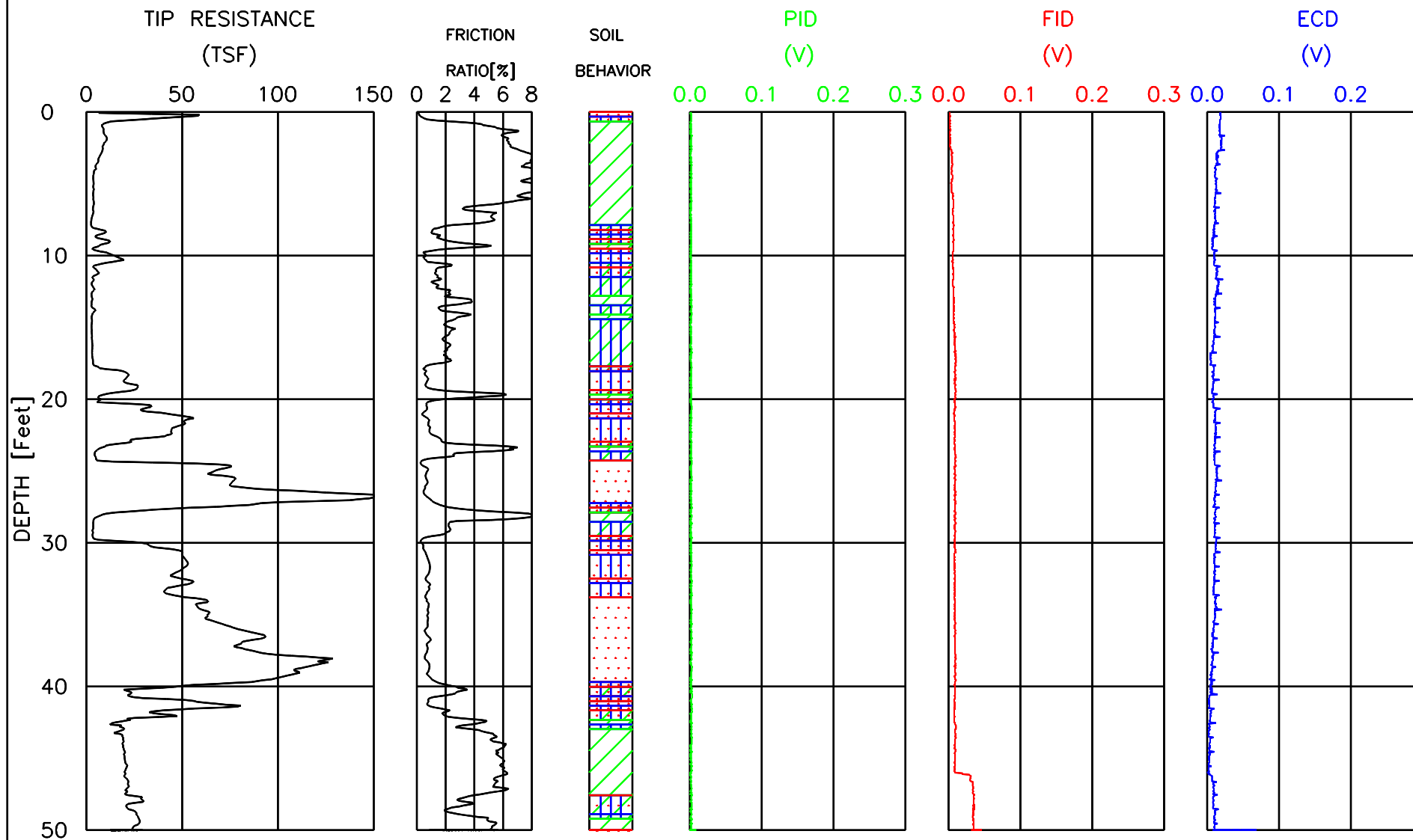
CPT NUMBER: NG3-CPT1

CONE NUMBER: A15F2.5CKEHW1636

DATE: 03-Jun-2008

PLATE: 2 OF 2

# CPT/MIP TEST RESULTS



JOB NUMBER: 04.1908-0042

ELEVATION: 0.00

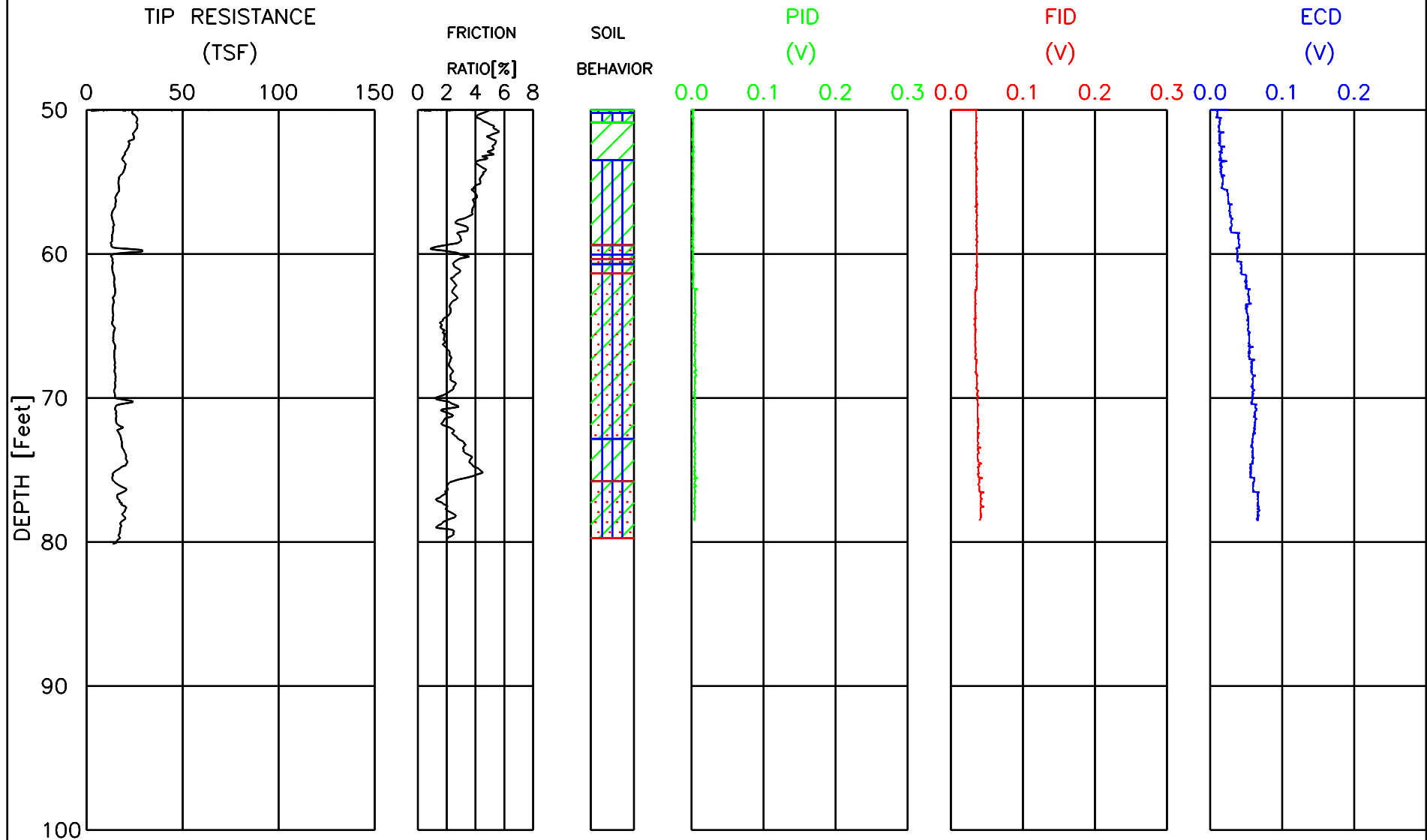
CPT NUMBER: NE4-CPT2

CONE NUMBER: A15F2.5CKEHW1636

DATE: 04-Jun-2008

PLATE: 1 OF 2

# CPT/MIP TEST RESULTS



JOB NUMBER: 04.1908-0042

ELEVATION: 0.00

CPT NUMBER: NE4-CPT2

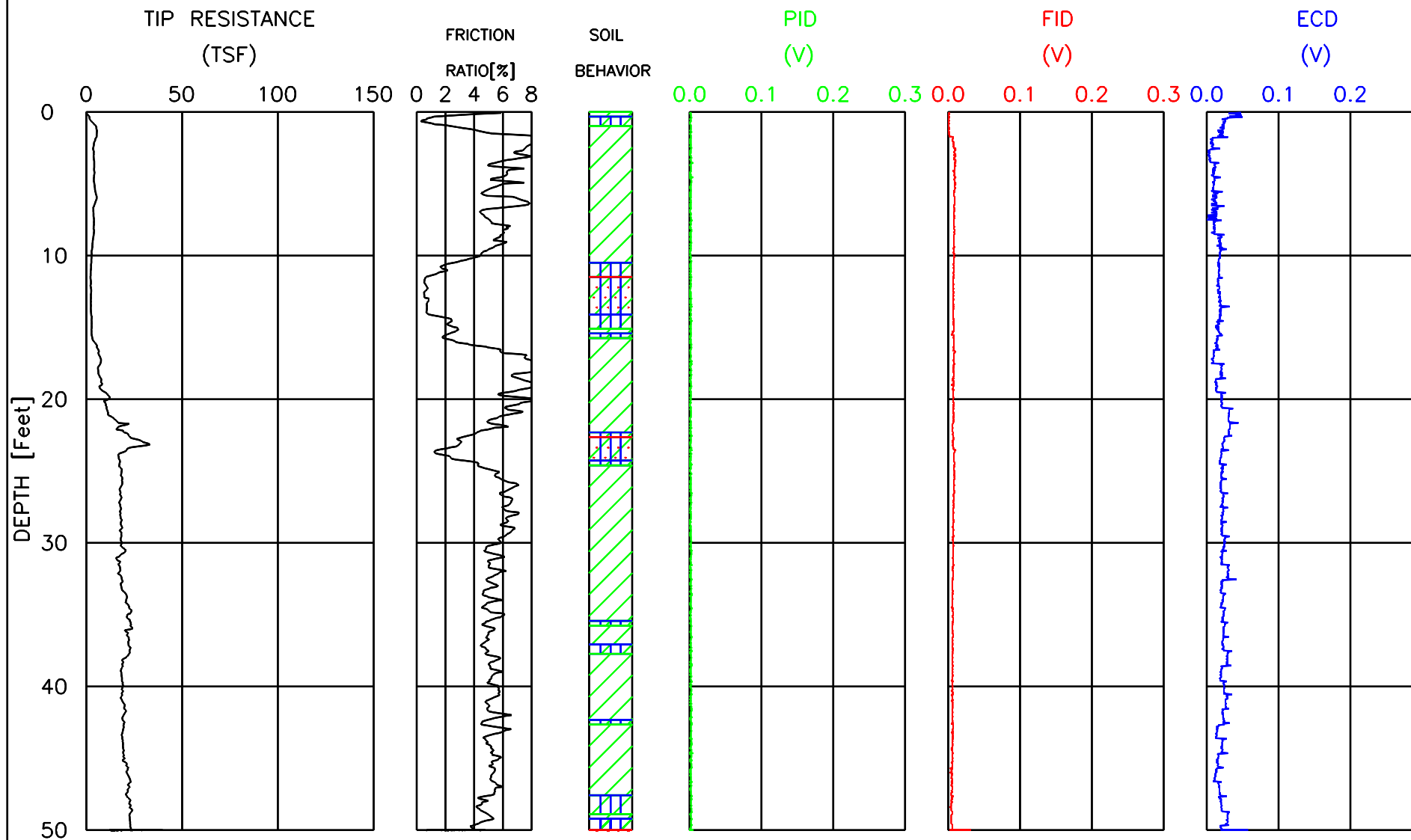
CONE NUMBER: A15F2.5CKEHW1636

DATE: 04-Jun-2008

PLATE: 2 OF 2



# CPT/MIP TEST RESULTS



JOB NUMBER: 04.1908-0042

ELEVATION: 0.00

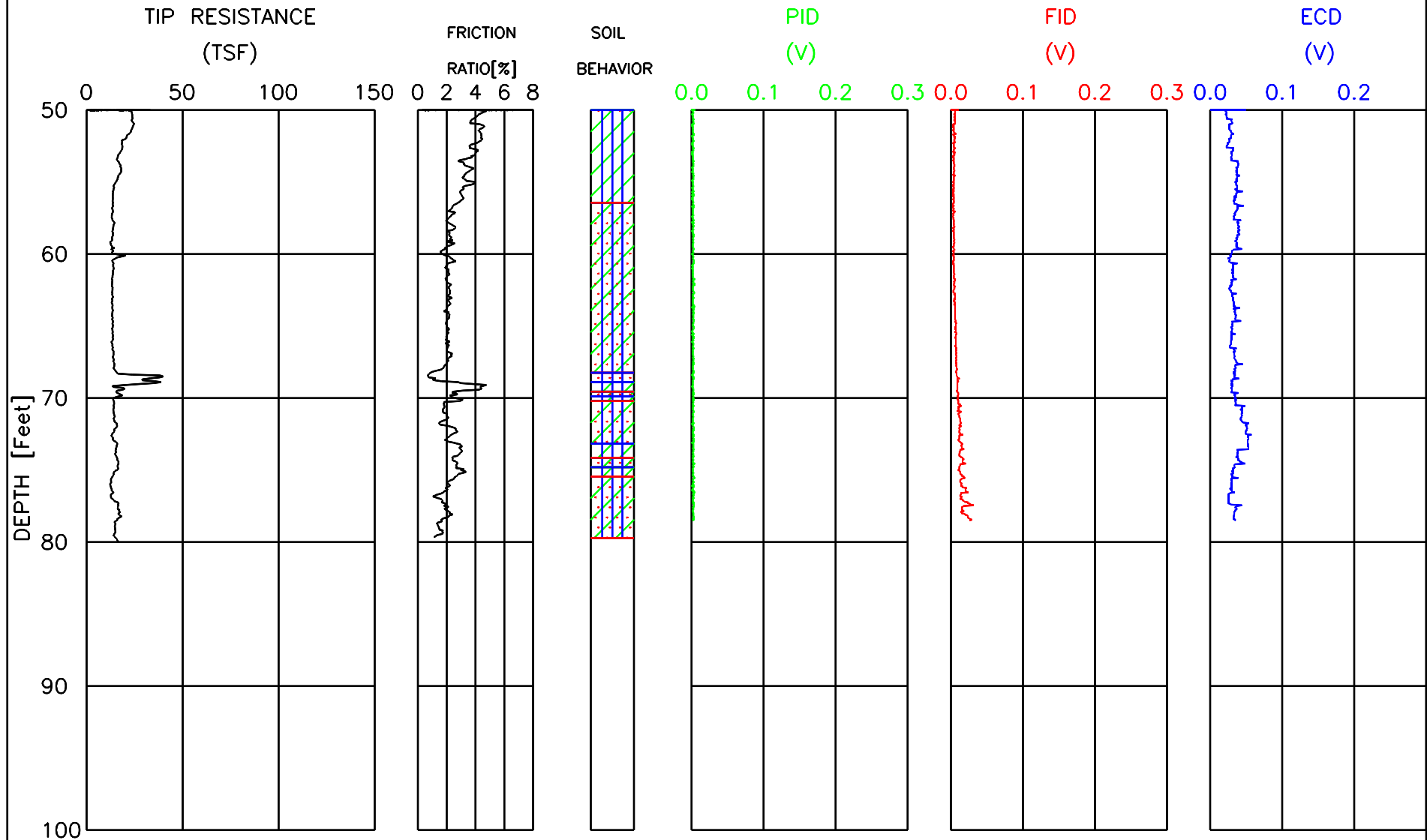
CPT NUMBER: NC2-CPT3

CONE NUMBER: A15F2.5CKEHW1636

DATE: 02-Jun-2008

PLATE: 1 OF 2

# CPT/MIP TEST RESULTS



JOB NUMBER: 04.1908-0042

ELEVATION: 0.00

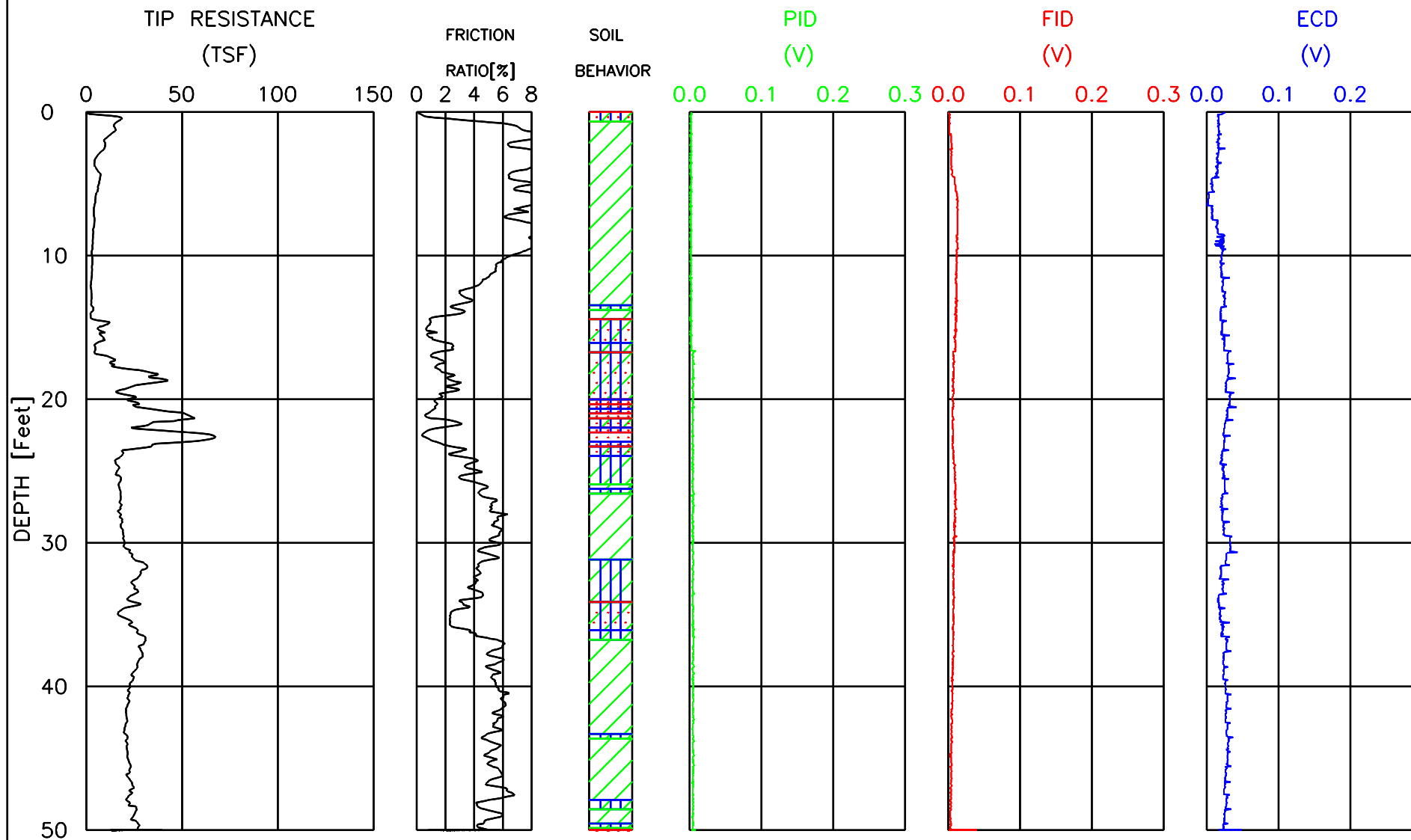
CPT NUMBER: NC2-CPT3

CONE NUMBER: A15F2.5CKEHW1636

DATE: 02-Jun-2008

PLATE: 2 OF 2

# CPT/MIP TEST RESULTS



JOB NUMBER: 04.1908-0042

ELEVATION: 0.00

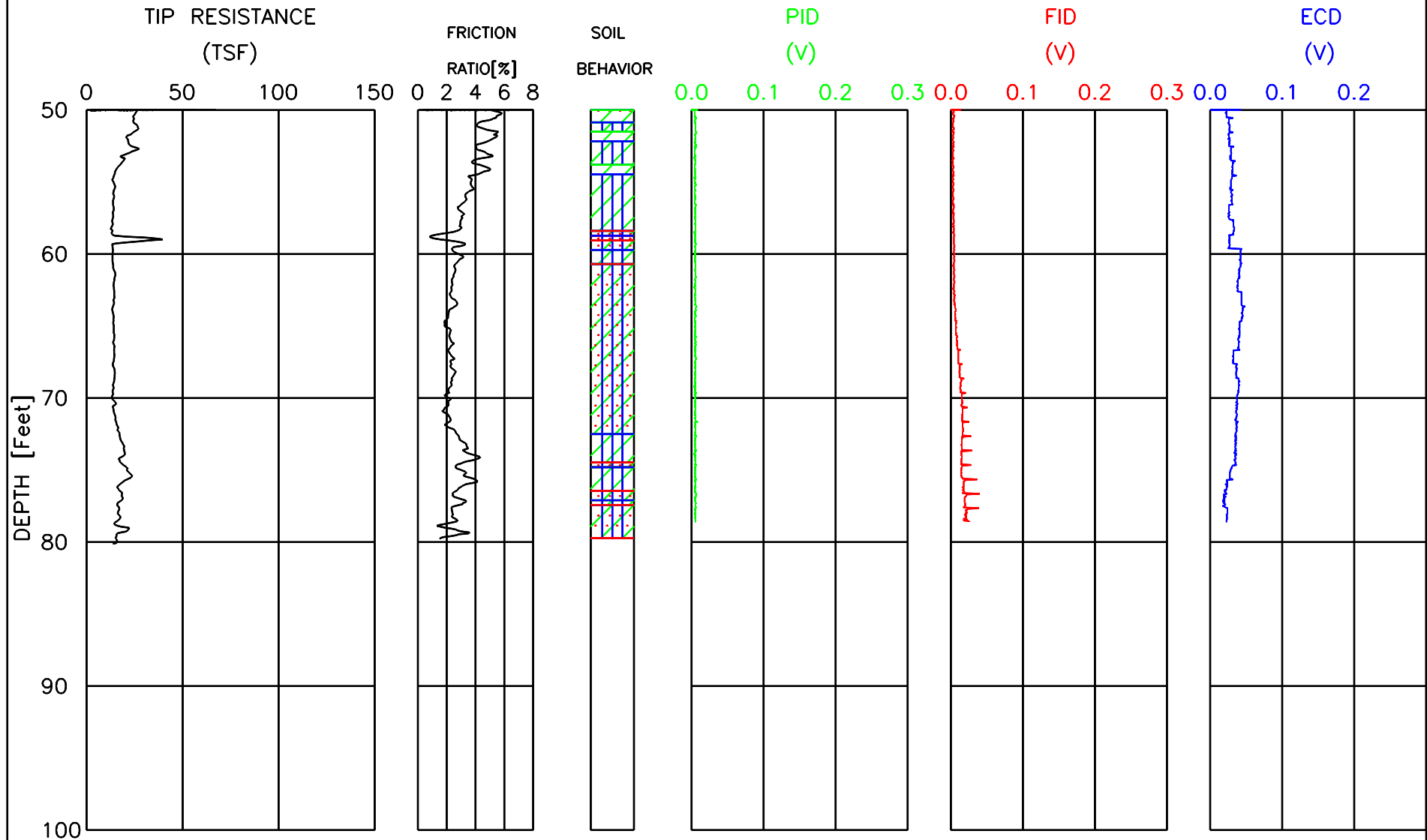
CPT NUMBER: OCPT-4

CONE NUMBER: A15F2.5CKEHW1636

DATE: 03-Jun-2008

PLATE: 1 OF 2

# CPT/MIP TEST RESULTS



JOB NUMBER: 04.1908-0042

ELEVATION: 0.00

CPT NUMBER: OCPT-4

CONE NUMBER: A15F2.5CKEHW1636

DATE: 03-Jun-2008

PLATE: 2 OF 2